

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-022294**Date Inspected:** 24-Mar-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Li Yang**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Orthotropic Box Girder (OBG)**Summary of Items Observed:**

On this date Caltrans Office of Structural Material (OSM) Quality Assurance (QA) Inspector, D.Sukanthan was present during the time noted above for observations relative to the work being performed.

OBG # SEGMENT 12AW

This QA inspector received ZPMC Non Destructive Testing (NDT) notification 08608 to perform Magnetic particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control Personnel. This QA Inspector generated a Magnetic particle Test report for this date. The member is identified as Padeye. The weld tested is identified as follows:

(SEG3004M-096,097,098,134,135,136)

(SEG3004E-135)

TOWER

This QA inspector received ZPMC Non Destructive Testing (NDT) notification 08609 to perform Magnetic particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control Personnel. This QA Inspector generated a Magnetic particle Test report for this date. The member is identified as Hand rail. The weld tested is identified as follows:

(WSD1-RA6-9-2-1~4)

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(WSD1-RA6-11-1~6)
(WSD1-LASA6-13-1~3)
(WSD1-LASA6-7-1~18)
(NSD1-RA6-5-2-1~4)
(NSD1-RA6-8-2-1~4)
(ESD1-RA6-10-1~6)
(SSD1-RA6-1-1~7)
(NSD1-LASA6-5-1-1/2)
(NSD1-LASA6-2-2-1/2)
(SSD1-LASA6-16-2-1-1~52)
(NSD1-LASA6-12-1-1~54)
NSD1-LASA6-9-2-1~16)

This QA Inspector randomly observed the following work in progress:

OBG # CROSSBEAM CB17

This QA observed ZPMC qualified welding personnel identified as 040673 perform Shielded Metal Arc Welding (SMAW) Process repair welding on weld joint CB3001A-017-017. ZPMC Quality Control Personnel (QC) identified as Mr. Liyang was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-345-SMAW-2G (2F)-FCM-Repair-1 and Weld Repair Report B-WR20401.

This QA observed ZPMC qualified welding personnel identified as 040673 perform Shielded Metal Arc Welding (SMAW) Process repair welding on weld joint CB3001A-017-002. ZPMC Quality Control Personnel (QC) identified as Mr. Liyang was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-345-SMAW-2G (2F)-FCM-Repair-1 and Weld Repair Report B-WR040673.

OBG # CROSSBEAM CB18

This QA Inspector observed that Crossbeam CB18 moved to Trail assembly area for fit up to lift 13 east lines. No other signification work was being performed on this crossbeam during the time QA was present.

OBG # CROSSBEAM CB19

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # SEGMENT 12AW

This QA observed ZPMC qualified welding personnel identified as 070432 perform Shielded Metal Arc Welding (SMAW) Process on weld joint SEG3004E-271. ZPMC Quality Control Personnel (QC) identified as Mr. Zhang qiang was present to monitor the welding process. The welding parameters as measured using QC's calibrated

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instruments appeared to be in general compliance with WPS-B-P-2112 and WPS-B-P-2113-FCM-1.

This QA observed ZPMC qualified welding personnel identified as 070432 perform Shielded Metal Arc Welding (SMAW) Process on weld joint SEG3004H-038,039. ZPMC Quality Control Personnel (QC) identified as Mr. Zhang qiang was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-P-2112 and WPS-B-P-2113-FCM-1.

This QA observed ZPMC qualified welding personnel identified as 070432 perform Shielded Metal Arc Welding (SMAW) Process on weld joint SEG3004J-037,038. ZPMC Quality Control Personnel (QC) identified as Mr. Zhang qiang was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-P-2112 and WPS-B-P-2113-FCM-1.

This QA observed ZPMC qualified welding personnel identified as 070432 perform Shielded Metal Arc Welding (SMAW) Process on weld joint SEG3004D-038,039. ZPMC Quality Control Personnel (QC) identified as Mr. Zhang qiang was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-P-2112 and WPS-B-P-2113-FCM-1.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

As mention above

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 150-00422372, who represents the Office of Structural Materials for your project.

Inspected By:	Sukanthan,Dhanasingh	Quality Assurance Inspector
Reviewed By:	Hall,Steven	QA Reviewer
